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**PROPOSAL
FOR
TESTING PROGRAM OF MARK 2 DELAYS**

22 March 1957

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It is proposed to undertake a time testing program to evaluate the Mark 2 Delays which were manufactured in a pilot production lot of 1000 units. The samples of the lot will be selected exclusively from this production lot and no further work upon the unit itself will be performed. Because of the effects of cold flow of the plastic disk around the head of the striker screw, no tests will be performed before June of 1957, thereby insuring a minimum of 6 months storage of the unit before test. Tests are proposed at 41°, 77° and 104°F, both in the inverted and upright positions.

It is proposed that the more frequently used delay times have 20 tests performed upon them rather than 10 and the very infrequently used delays at low temperature have only 5 tests performed upon them. Details of the proposed program are given in the following table:

TESTING PROGRAM IN DETAIL

<u>Capsule</u>	<u>Red</u>	<u>Yellow</u>	<u>Green</u>	<u>Blue</u>	<u>Brown</u>	<u>Black</u>	<u>Silver</u>	<u>Gold</u>
41°F								
Upright	10	10	10	10	10	5	5	0
Inverted	10	10	10	10	10	5	5	0
77°F								
Upright	20	20	10	10	10	10	10	10
Inverted	20	20	10	10	10	10	10	10
104°F								
Upright	10	10	10	10	10	10	10	10
Inverted	10	10	10	10	10	10	10	10

Total - 480 Tests

If other time delays are of greater interest than those indicated, a substitution of tests could be easily arranged.

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It is anticipated that 12 months will be required for the completion of this task. Reports will be written quarterly and a summary report will be written after completion of the task.

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SECRET**COST ESTIMATE**

500 Engineering Hours @ \$2.50	\$1,250.00	
100 Engineering Hours @ \$3.50	<u>350.00</u>	
Sub Total		\$1,600.00
Overhead @ 131%		
	<u>\$2,100.00</u>	
Sub Total		\$3,700.00
Materials, Jigs & Fixtures	500.00	
Miscellaneous	<u>100.00</u>	
Sub Total		\$4,300.00
G & A @ 10%	<u>430.00</u>	
Sub Total		\$4,730.00
Fee @ 8%	<u>378.00</u>	
TOTAL		\$5,108.00

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REC
4/30/57
11:30**SECRET**

April 24, 1957

Dear Joe,

On Contract RD-45 Task Order A (Mk. 3 Time Delay), we shall require an extension beyond the present expiration date of 2 May 1957 in order to complete the time delay study. We believe that we have well established the basic soundness of the design, and it remains to find the variability of delay times. We have sufficient funds to do this work, and I suggest that we extend the time to 2 July 1957, which is sixty days beyond the expiration date.

Regards,



25X1

*Taken care of by memo 5/6
requesting time exten; incrs
in scope and add'l funds.*

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